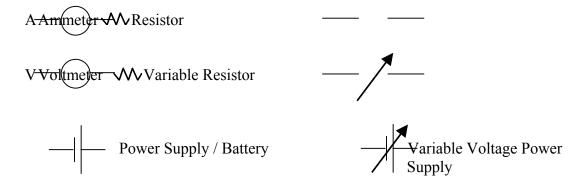
Physics Curriculum Support Document

Verifying Ohm's Law: Laboratory

3. <u>Be extremely careful with all of the equipment</u>. The resistors can get very hot. Ask if you are unsure of anything in your set up.

COMMON SYMBOLS FOR SCHEMATIC DIAGRAMS:



Questions to Guide Analysis

- 1. What is the purpose of the lab?
- 2. What was your prediction and justification for your prediction?
- 3. Draw and label a schematic diagram of your setup, using the symbols shown in the lab.
- 4. Indicate the color code for your resistor and record its numerical value (see page 1 for an example).
- 5. Include a data table with your data. Follow rules for data tables!
- 6. Include a graph of your data with a best-fit curve. Follow rules for graphs!
- 7. Analysis:
- a. Include a brief written statement of the relationship shown in your graph.
 - b. Record the equation for your best-fit curve using correct symbols and units. Watch s.f.
- c. If you eliminate the y-intercept give a justification.
 - 8. Questions: Answer questions using complete sentences. A person reading your answer should know what the question was from the wording of your answer!
- a. Clearly state the relationship you found in this lab.